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# **WATER SUPPLY OUTLOOK FOR OREGON**



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MAR 22 1976

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with  
**OREGON DEPARTMENT OF WATER RESOURCES**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**MAR. 1, 1976**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE  
SCS PHOTO AZ-5460

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

MARCH 8, 1976

*Issued by*

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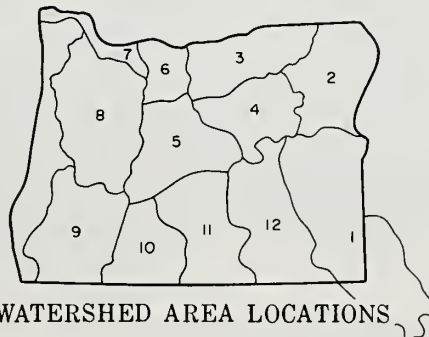
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# WATER SUPPLY OUTLOOK for OREGON

M A R C H 1, 1976

The water supply outlook for Oregon has improved from last month. It is near average over almost all of the state. The only areas below normal are the Siskiyou Mountains and Lake County. Reservoir storage remains excellent and most streamflow this summer will be near normal.

## SNOW COVER

Heavy snows occurred this last month throughout the Cascades and in some areas of the Coast range. Water contents doubled on the Clackamas river where the snowpack was 75% of normal last month and is now 145% of average. Snow cover in most areas is 95 to 125% of average. Poor snow cover at 50% of average exists on the watersheds draining from the Siskiyou Mountains.

## PRECIPITATION

Most of the precipitation occurring this past month came during the last 2 weeks. It was 125 to 200% of average in all areas except in the north central part of the state where it was slightly below normal. However, precipitation for the winter period beginning in November is still below normal in many areas of Oregon.

## SOIL MOISTURE

Soil moisture is near average to slightly below, however, this is 15 to 20% better than last year at this time.

## RESERVOIR STORAGE

Twenty-four major irrigation reservoirs were storing 2,380,000 acre feet on March 1. This is 121 percent of normal and 78% of capacity. This stored water will insure good supplies for many irrigators this coming summer.

continued on next page -

## STREAMFLOW

Projected streamflow on some of the principal Oregon rivers for this coming snowmelt season is as follows:

<u>STREAM</u>	<u>PERIOD</u>	<u>FORECAST % OF AVERAGE</u>
Owyhee net Inflow	Mar.-July	105
Grande Ronde @ La Grande	Mar.-July	110
Deschutes @ Benham Falls	Apr.-July	109
Willamette @ Salem	Apr.-July	115
Rogue @ Raygold	Apr.-July	112
Klamath Lake net Inflow	Mar.-July	96
Chewaucan nr. Paisley	Mar.-July	80

This report contains data furnished by the Oregon Department of Water Resources, U. S. Geological Survey, NOAA National Weather Service and other cooperators.



# WATER SUPPLY OUTLOOK

## OWYHEE, MALHEUR WATERSHEDS

### OREGON

#### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS REMAIN GOOD IN MALHEUR COUNTY. THE SNOW COVER IS NEAR AVERAGE ON THE MALHEUR DRAINAGES AND THE OWYHEE. PRECIPITATION THIS PAST MONTH WAS 115% OF NORMAL. RESERVOIR STORAGE IS ABOVE AVERAGE AND PROSPECTS FOR FILLING THE MAJOR IRRIGATION RESERVOIRS IS EXCELLENT.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average C
Bully Creek at Warm Springs	13.7	99	Mar.-May		13.9
Malheur near Drewsey	89	95	Mar.-July		94
	68	95	Apr.-Sept.		72
Malheur, North Fork at Beulah	68	94	Mar.-July		72
	60	94	Apr.-Sept.		64
Owyhee Reservoir net Inflow	452	105	Mar.-July	1072	431
	328	99	Apr.-Sept.	917	332

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	May 25	May 24
	250	June 20	June 20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average C
Antelope	70.0	No rpt.	--	16.7
Beulah Reservoir	60.0	31.1	30.8	30.8
Bully Creek	30.0	18.9	14.1	15.6
Owyhee	715.0	680.9	467.4	451.2
Warm Springs	191.0	138.3	130.4	96.5

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average C
Owyhee River	3	--	77

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average C
Jordan Creek	2	75	90
Malheur River	5	75	110
Owyhee River	5	60	100
Bully Creek	2	45	90

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



# WATER SUPPLY OUTLOOK

## BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

### OREGON

#### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS REMAIN GOOD IN NORTHEASTERN OREGON. THE SNOW COVER IS AVERAGE TO ABOVE IN THE WALLOWAS AND THE ELKHORNS. PRECIPITATION THIS PAST MONTH WAS 115% OF NORMAL. RESERVOIR STORAGE IS GOOD AND ALL MAJOR IRRIGATION RESERVOIRS SHOULD FILL.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Bear near Wallowa	68	103	Apr.-Sept.	300 244	66
Burnt near Hereford	43	102	Mar.-July		42
	35	106	Apr.-Sept.		33
Catherine near Union	68	105	Apr.-Sept.		65
Eagle Creek abv. Skull Creek	179	102	Apr.-July		175
	196	103	Apr.-Sept.		190
Grande Ronde at La Grande	212	110	Mar.-July		193
	179	114	Apr.-Sept.		158
Hurricane near Joseph	47	100	Apr.-Sept.		47
Imnaha at Imnaha	292	95	Apr.-Sept.		307
Lostine near Lostine	122	98	Apr.-Sept.		125
Powder near Sumpter	51	93	Apr.-July		55
	52	93	Apr.-Sept.		56
Wallowa, East Fork near Joseph	11.9	98	Mar.-Sept.		12.2
	11.1	97	Apr.-Sept.		11.4

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Phillips Lake	73.5	60.3	55.2	--
Thief Valley	17.4	17.4	17.4	17.3
Unity	25.2	14.4	12.7	14.0
Wallowa Lake	37.5	26.8	26.3	22.3

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Burnt River	4	90	105
Grande Ronde River above La Grande	4	90	125
Powder River	5	85	100
Wallowa, Imnaha, Catherine Creek	6	80	100

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
Burnt, Powder	1	180	115
Grande Ronde, Catherine Creek, Imnaha River	3	105	95

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Birch Creek at Rieth	22	100	Mar.-July		22
McKay near Pilot Rock	16	100	Apr.-Sept.		16.0
	27	111	Apr.-July		24
	28	114	Apr.-Sept.		24
Umatilla near Gibbon	109	112	Mar.-Sept.		97
	85	113	Apr.-Sept.		75
Umatilla at Pendleton	224	112	Mar.-Sept.		200
	158	110	Apr.-Sept.		144
Walla Walla, South Fork near Milt	91	115	Mar.-Sept.		79
	78	118	Apr.-Sept.		66
Butter Cr. nr. Pine City	11.1	97	Mar.-July		11.4

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	May 23	May 22

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Cold Springs	50.0	39.5	38.0	41.4
McKay	73.8	52.5	57.4	40.2

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
Umatilla, Walla Walla, McKay Creek	3	120	100

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
McKay Creek	3	90	125
Umatilla River	3	110	145
Walla Walla River	2	135	150

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



# WATER SUPPLY OUTLOOK

## UPPER JOHN DAY WATERSHEDS

### OREGON

#### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS ON THE UPPER JOHN DAY REMAIN GOOD. SNOW COVER IS AVERAGE TO ABOVE AVERAGE. PRECIPITATION THIS PAST MONTH WAS NEAR NORMAL. STREAMFLOW THIS SUMMER IS EXPECTED TO BE NORMAL.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Camas Creek near Ukiah	46	109	Mar.-July		43
	37	112	Apr.-Sept.		33
John Day, Middle Fork at Ritter	126	98	Mar.-July		129
	112	104	Apr.-Sept.		108
John Day, North Fork at Monument	644	100	Mar.-July		646
	551	102	Apr.-Sept.		540
Strawberry near Prairie City	7.3	102	Mar.-July		7.2
	7.4	98	Apr.-Sept.		7.6

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
John Day above Dayville	3	105	100
John Day, North Fork	1	110	105

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
John Day, North Fork	7	90	100
John Day abv. Dayville	5	85	110

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# UPPER DESCHUTES, CROOKED WATERSHEDS

## OREGON

### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS IN THE DESCHUTES BASIN REMAIN GOOD. HEAVY SNOWS WERE RECEIVED IN THE CASCADES THE LAST WEEK OF FEBRUARY AND AS A RESULT SNOW COVER IS NOW ABOVE AVERAGE. PRECIPITATION THIS PAST MONTH AT VALLEY STATIONS WAS SLIGHTLY BELOW NORMAL. RESERVOIR STORAGE IS MOSTLY ABOVE AVERAGE. PROSPECTIVE STREAMFLOW THIS SUMMER SHOULD BE NORMAL TO ABOVE.



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average C
Beaver Creek near Paulina	25	100	Mar.-July		25
	16.0	100	Apr.-Sept.		16.0
Crane Prairie Reservoir total Inflow	140	118	Apr.-Sept.		119
Crescent at Crescent Lake	27	128	Mar.-July		21
	28	127	Apr.-Sept.		22
Crooked near Post	142	105	Mar.-July		135
	96	105	Apr.-Sept.		91
Deschutes at Benham Falls	392	109	Apr.-July		360
	595	108	Apr.-Sept.		550
Deschutes below Snow Creek	81	117	Mar.-July		69
	73	117	Apr.-Sept.		62
Deschutes, Little near La Pine	98	109	Mar.-July		88
	86	105	Apr.-Sept.		82
Ochoco Reservoir net Inflow	29	105	Mar.-July		27
	21	112	Apr.-Sept.		18.8
Odell near Crescent	33	119	Apr.-Sept.		28
Squaw near Sisters	50	100	Apr.-Sept.		50
Tumalo near Bend	50	113	Apr.-Sept.		44

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Crooked R. near Post	100	May 29	June 1
Deschutes at Bend	1500	*	July 1
Little Deschutes near La Pine	400	May 29	June 7
	200	June 20	July 8

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average C
Crane Prairie	55.3	55.9	58.0	43.4
Crescent Lake	86.9	84.4	88.0	48.3
Ochoco	47.5	36.9	24.8	25.6
Prineville	153.0	110.2	97.8	112.4
Wickiup	200.0	190.1	189.3	168.7

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average C
Crooked R., Upper Deschutes River	2	110	90

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average C
Crooked, Ochoco	4	85	115
Deschutes abv. Wickiup	3	100	125
Little Deschutes	4	95	125
Tumalo & Squaw Crs.	3	90	115

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



# WATER SUPPLY OUTLOOK

## HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

### OREGON

#### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS SHOULD BE ADEQUATE IN WASCO AND HOOD RIVER COUNTIES THIS SUMMER. HEAVY SNOWS WERE RECEIVED IN THE CASCADES THE LAST WEEK OF FEBRUARY AND WATER CONTENTS AT SOME SNOW COURSES LIKE CLEAR LAKE DOUBLED FROM FEBRUARY 1. THE SNOW COVER IS NOW AVERAGE TO ABOVE. PRECIPITATION THIS PAST MONTH WAS ABOVE NORMAL. STREAMFLOW THIS SUMMER IS EXPECTED TO BE NEAR NORMAL TO ABOVE.

10 0 10 20 MILES  
SCALE 1:1,000,000



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Hood, West Fork near Dee	124	94	Apr.-July		132
	150	97	Apr.-Sept.		154
White below Tygh Valley	147	125	Apr.-July		118
	166	125	Apr.-Sept.		133

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	* 38.5	July 15-31	**39
* Average cfs forecast to flow for this two-week period.			
**Average cfs for period of record.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Clear Lake (Wasco)	11.9	10.5	9.8	3.1

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Hood River	4	105	105
Mile Creeks	3	65	95
White River	2	130	155

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# WATER SUPPLY OUTLOOK

## LOWER COLUMBIA WATERSHEDS

### OREGON

#### GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE LOWER COLUMBIA IS ABOVE AVERAGE. PRECIPITATION IN THE COLUMBIA BASIN THIS PAST MONTH WAS PARTICULARLY HEAVY DURING THE LATTER HALF OF FEBRUARY. THE SNOW PACK IS GENERALLY AVERAGE TO ABOVE, WITH HEAVIEST AMOUNTS REPORTED ON THE UPPER COLUMBIA IN CANADA, CLARKS FORK AND BLACK-FOOT IN MONTANA AND UPPER SNAKE IN WYOMING. THE SNOWPACK IS GENERALLY NEAR AVERAGE TO A LITTLE ABOVE IN WASHINGTON AND 110 TO 125% IN IDAHO AND OREGON. RESERVOIR STORAGE IS MOSTLY ABOVE AVERAGE THROUGHOUT THE BASIN. THE FORECASTED FLOW OF THE COLUMBIA AT THE DALLES, OREGON IS 108% FOR THE APRIL-SEPTEMBER PERIOD.



# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Sandy River	1	125	155

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Columbia at The Dalles	76,000	104	Apr.-June		73,160
	113,000	108	Apr.-Sept.		104,426
Sandy River near Marmot	377	110	Apr.-July		343
	438	110	Apr.-Sept.		398

## HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			REGULATED PEAK (1,000 cfs)	DATE
	APR - SEPT.	APR - JUNE	MAY - JUNE		
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



# WATER SUPPLY OUTLOOK

## WILLAMETTE WATERSHEDS

### OREGON

Area 8

#### GENERAL OUTLOOK

WATER SUPPLIES IN THE WILLAMETTE VALLEY ARE EXPECTED TO BE NEAR NORMAL TO ABOVE THIS SUMMER. HEAVY SNOWS WERE RECEIVED IN THE CASCADES AND COAST RANGE DURING THE LAST WEEK OF FEBRUARY AND THE SNOW COVER IS NOW AVERAGE TO ABOVE AVERAGE. PRECIPITATION AT VALLEY STATIONS THIS PAST MONTH WAS ABOVE NORMAL. PROSPECTIVE STREAMFLOW THIS SUMMER IS EXPECTED TO BE ABOVE AVERAGE.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Clackamas at Estacada	748	111	Apr.-July		674
	862	109	Apr.-Sept.		789
Clackamas above Three Lynx	568	112	Apr.-July		507
	666	110	Apr.-Sept.		604
McKenzie at McKenzie Bridge	497	110	Apr.-July		454
	653	109	Apr.-Sept.		599
McKenzie near Vida	1151	111	Apr.-July		1035
	1395	110	Apr.-Sept.		1263
McKenzie, So. Fork near Rainbow	242	115	Apr.-July		210
	270	113	Apr.-Sept.		239
Oak Grove Fork above Power Intake	140	114	Apr.-July		123
	186	114	Apr.-Sept.		162
Row near Dorena	96	99	Apr.-July		98
	101	99	Apr.-Sept.		102
Santiam, North at Mehama	918	120	Apr.-July		765
	1046	120	Apr.-Sept.		872
Santiam, South at Waterloo	677	120	Apr.-July		564
	728	120	Apr.-Sept.		607
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	768	114	Apr.-July	836	678
	873	112	Apr.-Sept.	943	779
Willamette, No. Fk., of Mid. Fk. near Oakridge	203	108	Apr.-July		189
	221	106	Apr.-Sept.		209
Willamette at Salem	5047	115	Apr.-July		4397
	5558	112	Apr.-Sept.		4943

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Clackamas River	2	140	145
McKenzie River	3	85	120
Row River	2	100	110
Santiam River	4	135	145
Willamette, Mid. Fk.	5	100	130

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Blue River	85.6*	33.9	38.9	--
Cottage Grove	30.0*	8.3	8.5	8.4
Cougar	155.2*	50.8	69.9	41.7
Detroit	299.9*	87.5	134.2	110.6
Dorena	70.5*	18.1	19.4	19.8
Fall Creek	115.0*	42.9	46.4	37.5
Fern Ridge	94.2*	48.6	49.8	36.3
Foster	30.0*	7.1	7.4	6.0
Green Peter	270.0*	109.8	135.4	109.7
Henry Hagg Lake	53.0	47.6	--	--
Hills Creek	200.0*	79.7	101.2	59.9
Lookout Point	337.2*	90.2	138.7	97.3
Timothy Lake	61.7	60.9	60.2	53.0

\* Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# WATER SUPPLY OUTLOOK

## ROGUE, UMPQUA, WATERSHEDS

### OREGON

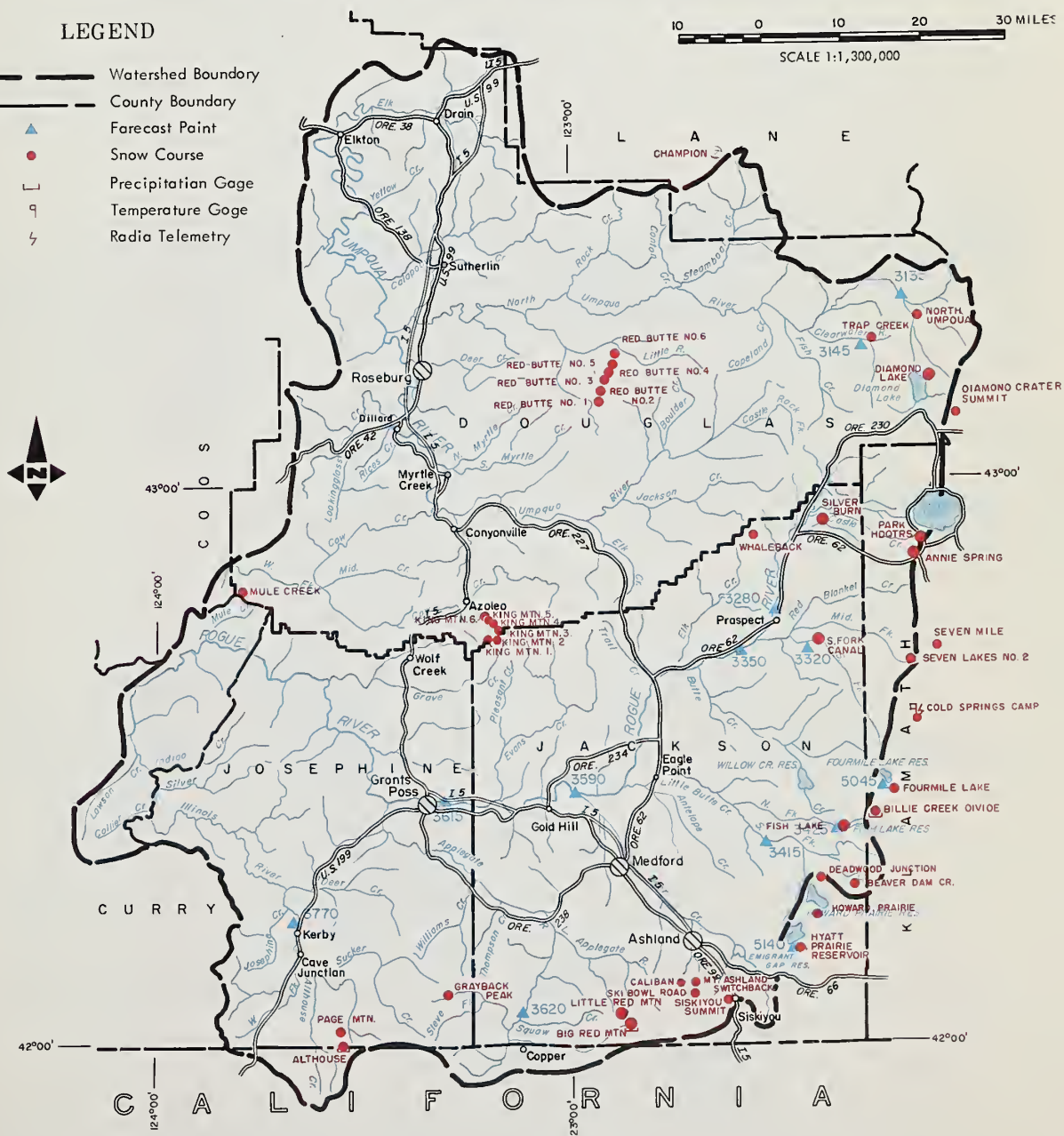
#### GENERAL OUTLOOK

WATER SUPPLY PROSPECTS REMAIN GOOD IN THE ROGUE-UMPQUA BASINS EXCEPT FOR THOSE STREAMS ORIGINATING IN THE SISKIYOU MOUNTAINS. SNOW COVER IN THE CASCADES IS AVERAGE TO ABOVE AVERAGE. HOWEVER, SNOW MEASUREMENTS IN THE SISKIYOU INDICATE A SNOWPACK ONLY ONE-HALF OF NORMAL. PRECIPITATION THIS PAST MONTH WAS ABOVE NORMAL. RESERVOIR STORAGE IS ABOVE AVERAGE. STREAMFLOW THIS SUMMER IS EXPECTED TO BE GOOD IN MOST AREAS EXCEPT FOR THE SISKIYOU WHERE IT WILL BE BELOW AVERAGE.

#### LEGEND

- Watershed Boundary
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- Precipitation Gage
- 9 Temperature Gage
- ⚡ Radio Telemetry

10 0 10 20 30 MILES  
SCALE 1:1,300,000





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average C
Applegate near Copper	93	70	Apr.-Sept.		133
Clearwater above Trap Creek	82	118	Apr.-Sept.		69
Fourmile Lake net Inflow	5.2	121	Apr.-Sept.		4.3
Hyatt Reservoir net Inflow	5.0	109	Apr.-July		4.6
Illinois River near Kerby	158	82	Apr.-July		191
	164	83	Apr.-Sept.		197
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	13.7	100	Apr.-Sept.		13.7
Little Butte, S. Fk. near Lake Creek	33	117	Apr.-July		28
Rogue above Prospect	304	118	Apr.-July		256
	366	118	Apr.-Sept.		311
Rogue, South Fork near Prospect	72	118	Apr.-July		61
	82	115	Apr.-Sept.		72
Rogue at Raygold near Central Point	823	112	Apr.-July	1030	735
	997	112	Apr.-Sept.	1209	890
Rogue at Grants Pass	953	107	Apr.-Sept.		890
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls	187	113	Apr.-Sept.		166

## FORECAST DATE of LOW FLOW VALUES

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	Usable Storage		
						This Year	Last Year	Average C
Little Butte Creek, South Fork	100	May 24	May 27	Emigrant Lake	39.0	29.2	29.4	28.5*
				Fish Lake	8.0	7.2	7.7	5.5
				Fourmile Lake	16.1	14.4	11.8	8.7
Rogue at Raygold	1200	Aug. 28	Aug. 7	Howard Prairie	60.0	51.7	39.6	35.9
	*2062	July 1		Hyatt Prairie	16.1	13.6	11.6	11.3
	*1309	Aug. 15		* Average for years of record (in base period) after reconstruction.				
* Average daily cfs forecast to flow on this date.								

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average C
Applegate	3	45	50
Bear Creek	2	55	70
Butte Creek	4	85	125
Illinois River	3	50	50
North Umpqua	3	95	155
Rogue River	4	90	130

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



WATER SUPPLY PROSPECTS ARE NEAR AVERAGE IN MOST AREAS OF KLAMATH COUNTY. EXCEPTIONS ARE FOR USERS DEPENDENT ON DIRECT DIVERSION IN THE EAST HALF OF THE COUNTY. HERE, THE SNOW COVER IS BELOW NORMAL AND STREAMFLOW THIS SUMMER SHOULD BE LESS THAN AVERAGE. RESERVOIR STORAGE IS ABOUT NORMAL FOR MARCH 1.



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Clear Lake Reservoir Inflow	50	75	Mar.-July		67
Gerber Reservoir Inflow	27	87	Mar.-July		31
Sprague near Chiloquin	230	85	Mar.-July		271
	205	85	Apr.-Sept.		242
Upper Klamath Lake net Inflow	695	96	Mar.-July	869	724
	516	96	Apr.-Sept.	742	536
Williamson Below Sprague River	413	99	Apr.-Sept.		414

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
Upper Klamath	1	105	95

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Clear Lake	440.2	287.7	288.6	227.1
Gerber	94.0	56.6	46.3	53.5
Upper Klamath Lake	584.0	354.5	362.3	422.6

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

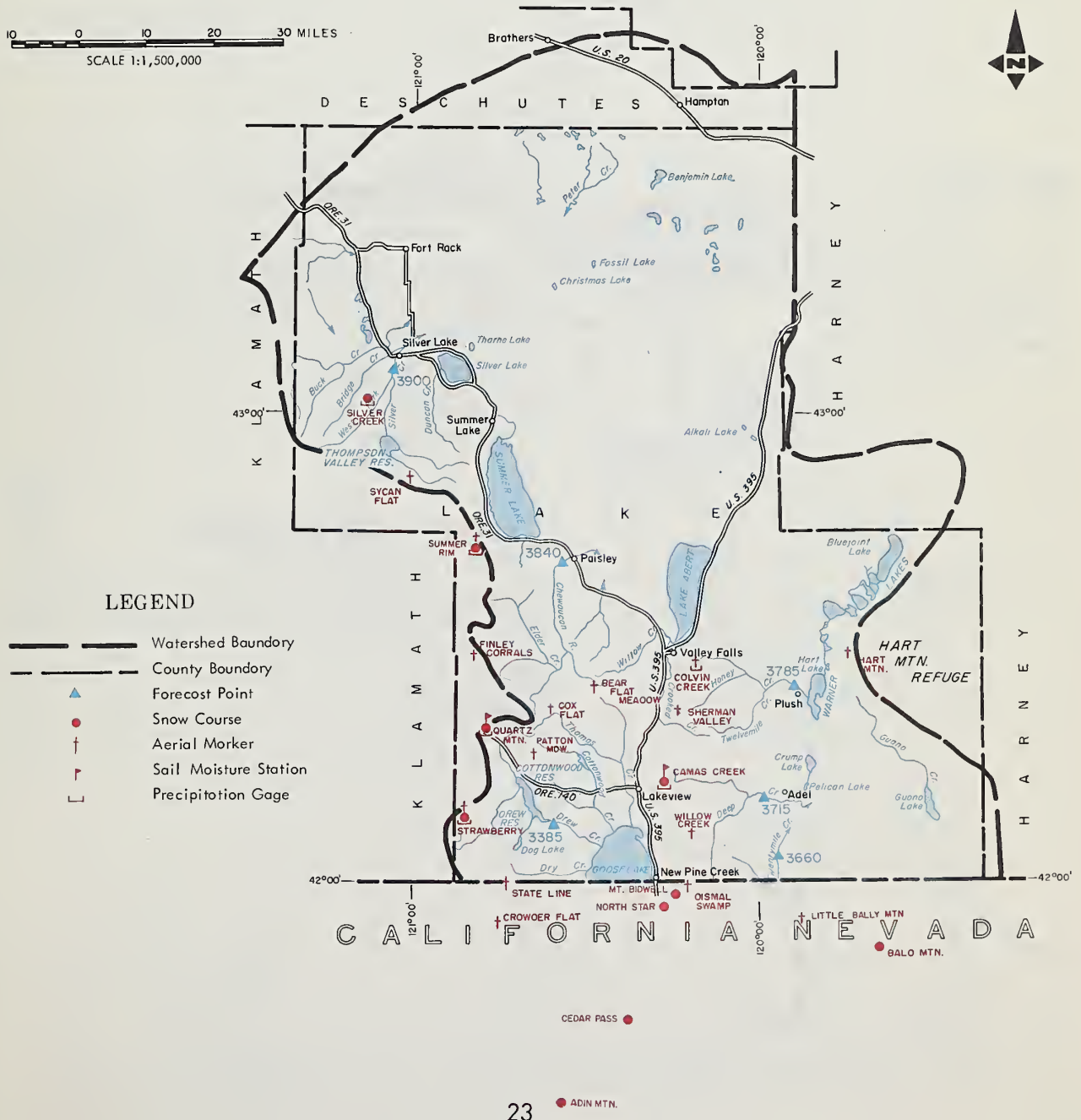
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Lost River	4	55	95
Sprague River	3	65	85
Upper Klamath	6	75	105
Williamson River	3	80	110

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

## GENERAL OUTLOOK

WATER SUPPLY PROSPECTS HAVE IMPROVED SOME FROM LAST MONTH'S OUTLOOK IN LAKE COUNTY. WATER SUPPLIES SHOULD STILL BE LESS THAN NORMAL, HOWEVER. SNOW COVER IS STILL BELOW AVERAGE BUT BETTER THAN THE VERY POOR CONDITIONS OBSERVED ON FEBRUARY 1. PRECIPITATION THIS PAST MONTH WAS TWICE THAT NORMALLY RECEIVED DURING FEBRUARY. RESERVOIR STORAGE IS ABOUT AVERAGE.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Chewaucan near Paisley	70	80	Mar.-July	98	87
Deep above Adel	58	77	Mar.-July		78
Drews Reservoir net Inflow	33	80	Mar.-July		41
Honey Creek near Plush	15.0	75	Mar.-July		20
Silver Creek near Silver Lake	10.2	75	Apr.-July		13.7
Twentymile near Adel	20	77	Mar.-July		26

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
Chewaucan, Silver Creek, Drew Creek	1	105	95
Honey, Deep, 20-Mi. Cr.	1	90	85

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>c</sup>
Cottonwood	8.7	No rpt.	1.3	4.0*
Drews	63.0	36.8	32.3	39.8
Thompson Valley	19.5	12.8	--	--

\*Average for years of record (in base period) after reconstruction.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Chewaucan River	3	65	85
Deep Creek	2	50	75
Drew Creek	3	65	110
Honey Creek	3	60	90
Silver Creek	3	35	70
Twentymile Creek	2	85	110

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
Donner und Blitzen near Frenchglen	54	99	Mar.-July		55
	52	98	Apr.-Sept.		53
Silver near Riley	17.9	115	Apr.-July		15.6
Silvies River near Burns	100	106	Mar.-July		94
	76	102	Apr.-Sept.		74
Trout Creek near Denio	8.4	100	Mar.-July		8.4
	7.9	100	Apr.-Sept.		7.9

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>c</sup>
Silvies River, Silver Cr.	2	115	105

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>c</sup>
Donner und Blitzen R.	4	85	120
Silver Creek	3	90	115
Silvies River	3	80	115
Trout Creek	3	75	110

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# BASIC DATA SUPPLEMENT 1

MARCH 1, 1976

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. C
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	No Report			--	6.1 <sup>b</sup>
Battle Creek (Ida.)***	2/24	12	3.4	6.5	2.9
Bear Creek (Nev.)	3/4	62	18.8	24.3	17.3
Big Bend (Nev.)	2/23	32	8.4	11.4	7.6
Blue Mountain Springs	2/26	54	14.0	16.7	14.1
Blue Mtn. Springs Pillow*	No Report			13.1	--
Buck Pasture***	2/23	12	4.0	4.3	2.1
Buckskin, Lower (Nev.)	2/23	24	6.4	11.6	7.4
Buckskin, Upper (Nev.)	2/23	24	8.1	15.9	8.7
Bull Basin (Ida.)***	2/24	6	1.7	3.7	1.1
Bully Creek***	2/24	10	2.8	3.6	2.5
Call Meadow***	2/24	28	3.4	7.2	4.0
Columbia Basin (Nev.)***	2/25	30	9.0	10.9	8.1
Cottonwood-Indian***	2/24	T	0.1	T	0.8
Disaster Peak (Nev.)	2/23	28	8.4	18.0	13.4
Eldorado Pass	2/26	11	4.1	6.6	2.8
Fawn Creek (Nev.)	2/25	24	7.2	7.0	4.4
Fish Creek	No Report			19.2	21.1
Fish Creek***	2/23	75	24.8	21.4	19.1
Flag Prairie***	2/24	12	3.4	9.6	4.2
Fox Creek (Nev.)	No Report			14.6	9.0
Fry Canyon (Nev.)	2/23	27	7.5	10.2	6.3
Gold Creek (Nev.)	2/23	25	6.3	7.2	4.9
Granite Peak (Nev.)	2/23	32	11.1	12.5	13.2
Hyde Pasture (Ida.)***	2/24	12	3.4	10.5	4.9
Jack Creek, Lower (Nev.)	2/23	18	6.2	6.7	--
Jack Creek, Upper (Nev.)	2/23	33	9.6	9.3	7.7
Jack Peak (Nev.)	2/23	64	20.6	--	--
Lake Creek R.S.	2/26	--	8.8 <sup>a</sup>	13.0	9.1
Laurel Draw (Nev.)***	2/23	30	7.8	11.7	6.4
Logan Valley***	2/24	34	9.5	12.3	7.4
Lookout Butte***	2/24	0	0.0	T	0.2
Louse Canyon***	2/24	12	3.4	11.5	2.8
Martin Creek (Nev.)	2/23	17	4.1	12.8	8.9
Merritt Mountain (Nev.)***	2/25	22	6.6	9.3	5.8 <sup>b</sup>
Midas (Nev.)	2/23	6	1.6	3.3	3.3
Mud Flat (Ida.)	No Report			--	5.4
Oregon Canyon***	2/23	14	4.2	4.5	4.8
Quinn Ridge (Nev.)***	2/24	5	1.4	6.7	1.8
Red Canyon (Ida.)***	2/24	20	5.6	11.2	5.9
Rock Spring	2/24	--	6.3 <sup>a</sup>	8.1	4.9
Rodeo Flat (Nev.)	2/23	20	5.5	9.1	4.9
76 Creek (Nev.)***	2/25	34	9.9	15.4	10.0
Silver City (Ida.)	3/2	60	13.2	17.2	13.8
Silver City (Ida.)***	2/24	43	12.0	--	--
Silvies	No Report			11.8	9.9
Silvies***	2/23	27	8.9	10.5	7.7
South Mountain #2 (Ida.)	2/28	38	10.8	13.8	11.3
Stag Mountain (Nev.)***	2/25	12	3.0	7.0	5.0 <sup>b</sup>
Stinking Water	2/26	12	4.2	7.9	1.9
Succor Creek (Ida.)***	2/24	21	5.9	8.4	5.4
Taylor Canyon (Nev.)	2/23	9	2.5	8.3	4.1
Toe Jam (Nev.)***	2/23	24	7.2	12.5	7.9
Tremewan Ranch (Nev.)	2/25	3	1.2	2.3	1.2
Triangle (Ida.)***	2/24	1	0.3	2.5	--
Trout Creek***	2/23	24	7.2	11.5	6.4
"V" Lake	2/23	23	6.9	13.0	4.9
Vaught Ranch (Ida.)***	2/24	13	3.6	8.4	3.3
War Eagle (Ida.)***	2/24	69	19.3	18.6	22.1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. C
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	2/23	79	25.8	33.2	31.4
Aneroid Lake #2	2/23	73	24.6	29.2	27.9
Anthony Lake	2/26	74	23.7	27.8	22.4
Bald Mountain (Ore.)***	2/29	72	23.0	24.8	20.1
Beaver Reservoir	2/28	--	10.6 <sup>a</sup>	12.5	11.0
Big Sheep***	2/29	66	21.1	29.2	23.1
Blue Mtn. Summit	3/1	--	8.9 <sup>a</sup>	11.0	7.7
Bourne	3/1	55	14.7	16.7	14.1
County Line	2/27	24	6.3	7.5	4.5
Dooley Mountain	2/27	22	6.4	9.8	8.1
Eilertson Meadows	3/1	40	10.5	13.4	10.1
Eldorado Pass	2/26	11	4.1	6.6	2.8
Gold Center	3/1	--	12.0 <sup>a</sup>	14.3	11.7
Goodrich Lake	2/28	--	39.2 <sup>a</sup>	30.8	35.4 <sup>b</sup>
Little Alps	2/26	40	10.4	15.0	11.8 <sup>b</sup>
Little Antone	2/26	24	7.0	10.6	7.2
Little Antone Alt.	2/26	29	8.2	12.8	--
Lucky Strike	2/28	45	10.2	10.8	11.0
Lucky Strike Pillow	2/28	32	7.7	15.0	--
Meacham	2/27	39	12.1	13.8	8.1
Mirror Lake***	2/29	191	66.8	61.2	59.0
Moss Spring	2/28	73	23.6	27.8	19.9
Schneider Meadow	2/29	80	26.0	29.1	27.3
Schoolmarm	2/27	--	5.2	5.1	3.7
Standley***	2/29	83	26.6	29.8	25.6
Taylor Green	2/28	51	15.4	18.6	14.7
Tipton	3/1	38	10.9	13.0	9.4
Tipton Snow Pillow*	3/1	--	15.3	16.2	--
Tollgate	2/26	86	29.8	22.9	21.4
TV Ridge***	2/29	60	19.2	21.6	18.2
West Eagle Meadows	2/29	74	23.7	--	--
UMATILLA, WALLA WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	2/28	34	7.9	10.0	9.2
Arbuckle Mtn. Pillow	2/28	65	18.7	23.3	--
Blue Mountain Camp	2/26	51	20.8	14.8	12.6
Bowman Springs	No Report			--	--
Butte Creek Summit	3/1	0	0.0	--	--
Emigrant Springs	2/27	21	6.8	7.1	4.0
High Ridge Pillow	3/1	100	34.8	28.4	--
Lucky Strike	2/28	45	10.2	10.8	11.0
Lucky Strike Pillow	2/28	32	7.7	15.0	--
Meacham	2/27	39	12.1	13.8	8.1
Tollgate	2/26	86	29.8	22.9	21.4



# BASIC DATA SUPPLEMENT 1

MARCH 1, 1976

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. C
UPPER JOHN DAY WATERSHEDS					
Anthony Lake	2/26	74	23.7	27.8	22.4
Arbuckle Mountain	2/28	34	7.9	10.0	9.2
Arbuckle Mt. Pillow	2/28	65	18.7	23.3	--
Blue Mountain Springs	2/26	54	14.0	16.7	14.1
Blue Mt. Springs Pillow*	No Report			13.1	--
Blue Mountain Summit	3/1	--	8.9 <sup>a</sup>	11.0	7.7
Butte Creek Summit	3/1	0	0.0	--	--
Derr	2/25	29	6.4	11.0	8.5
Gold Center	3/1	--	12.0 <sup>a</sup>	14.3	11.7
Indian Creek Butte***	2/24	66	18.5	--	20.8
Izee Summit	3/1	36	7.8	10.2	7.0
Lucky Strike	2/28	45	10.2	10.8	11.0
Lucky Strike Pillow*	2/28	32	7.7	15.0	--
Marks Creek	2/27	15	4.4	5.2	2.9
Ochoco Meadows	3/1	38	10.9	12.7	8.1
Olive Lake	2/26	--	17.3 <sup>a</sup>	16.4	17.6
Schoolmarm	2/27	--	5.2 <sup>a</sup>	5.1	3.7
Snow Mountain	3/3	46	12.2	13.0	11.9
Snow Mt. Pillow**	No Report			12.6	--
Starr Ridge	3/1	26	6.7	9.2	4.9
Tipton	3/1	38	10.9	13.0	9.4
Tipton Snow Pillow*	3/1	--	15.3	16.2	--

### UPPER DESCHUTES, CROOKED WATERSHEDS

Bald Peter	3/2	127	28.2	37.8	--
Caldwell Ranch	2/25	--	12.0 <sup>a</sup>	12.0	8.6 <sup>b</sup>
Cascade Summit	2/26	95	31.6	31.0	23.6
Chemult	2/25	24	5.9	12.1	8.9
Chemult Alternate	2/25	30	7.2	14.2	--
Derr	2/25	29	6.4	11.0	8.5
Hogg Pass	3/2	132	43.0	39.9	33.2
Hungry Flat	2/25	16	4.4	10.6	4.6
Irish-Taylor Pillow	2/26	--	42.5 <sup>a</sup>	41.8	32.6 <sup>b</sup>
Lionshead***	3/1	54	14.6	--	--
Marks Creek	2/27	15	4.4	5.2	2.9
New Crescent Lake	2/25	51	16.0	17.1	11.8
New Dutchman Flat #2	2/25	134	52.1	54.0	43.4
Ochoco Meadows	3/1	38	10.9	12.7	8.1
Racing Creek	3/2	62	17.0	17.0	--
Snow Mountain	3/3	46	12.2 <sup>a</sup>	13.0	11.9 <sup>b</sup>
Snow Mountain Pillow**	No Report			12.6	--
Summit Lake	2/26	--	41.8 <sup>a</sup>	42.3	32.6 <sup>b</sup>
Summit Lake Pillow**	No Report			38.8	--
Tamarack	2/26	24	5.8	8.2	4.5
Tangent	2/25	68	20.4	25.6	20.0
Three Creek Butte	2/26	42	10.4	12.5	9.0
Three Creek Meadow	2/26	67	16.5	21.0	15.6
Three Creek Mdw. Pillow**	2/26	87	20.5	--	--
Waldo Lake	2/26	--	32.6 <sup>a</sup>	33.9	23.3 <sup>b</sup>
Whitewater Meadow	3/1	27	7.3	--	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. <sup>c</sup>
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	2/26	23	9.0	14.6	9.6 <sup>b</sup>
Clear Lake	3/2	35	12.0	8.5	7.8
Clear Lake (Experimental)	3/2	65	21.4	16.9	12.3
Greenpoint	2/29	56	13.4	12.1	13.6
Greenpoint Pillow*	No Report			--	--
Knebal Springs	2/26	--	6.5 <sup>a</sup>	11.9	6.7 <sup>b</sup>
Mt. Hood Test Site	3/2	--	63.7	--	52.3
Mud Ridge	3/1	128	40.8	--	--
Red Hill	2/24	--	22.5 <sup>a</sup>	29.7	31.6
Red Hill Pillow*	No Report			--	--
Still Creek	3/1	82	28.2	22.2	18.3
Switchback	2/29	50	10.0	12.4	10.7 <sup>b</sup>
Tilly Jane	2/22	81	30.1	38.0	33.7
Ulrich Ranch Junction	2/26	--	3.9 <sup>a</sup>	4.3	3.6 <sup>b</sup>
Umbrella Falls	2/24	133	45.4	63.2	56.7
WILLAMETTE WATERSHEDS					
Cascade Summit	2/26	95	31.6	31.0	23.6
Champion	2/27	83	30.2	30.9	23.2 <sup>b</sup>
Clackamas Lake	3/1	43	13.7	8.7	10.3
Clear Lake	3/2	35	12.0	8.5	7.8
Clear Lake (Expt.)	3/2	65	21.4	16.9	12.3
Dead Horse Grade	2/23	36	12.2	17.6	13.5
Detroit (Town)	2/27	2	0.4	0.0	0.9
Detroit Dam	2/27	T	0.1	0.0	0.5
Golden Curry Creek	2/27	3	0.4	T	5.2
Hogg Pass	3/2	132	43.0	39.9	33.2
Lake Harriet	2/26	T	0.1	--	2.3
Laurel Mountain	3/1	40	12.0	4.0	--
Layna Creek	2/27	0	0.0	0.0	0.1
Lookout Point Dam	2/26	0	0.0	--	0.0
Lost Creek Ranch	2/27	0	0.0	0.0	3.6
Lund Park	2/27	0	0.0	0.0	0.5
Marion Forks	2/27	44	17.0	8.2	10.8 <sup>b</sup>
Marys Peak	2/26	40	8.8	6.2	10.0
McCredie Springs	2/26	0	0.0	--	0.4
McKenzie	2/23	122	48.3	48.9	36.2
McKenzie Bridge	2/27	0	0.0	0.0	0.6
Mill City	2/27	0	0.0	0.0	0.1
Mt. Hood Test Site**	3/2	--	63.7	--	52.3
Mud Ridge	3/1	128	40.8	--	--
Oakridge	2/26	0	0.0	--	0.0
Peavine Ridge Pillow**	3/1	--	18.3	13.1	13.1 <sup>b</sup>
Railroad Overpass	2/26	0	0.0	T	1.9
Saddle Mountain Pillow**	3/2	--	11.3	6.6	--
Salt Creek Falls	2/26	42	13.9	15.3	12.3
Santiam Junction	2/27	91	29.8	23.8	19.2
Santiam Junction Pillow*	No Report			--	--
Seine Creek Pillow**	No Report			2.4	--
Still Creek	3/1	82	28.2	22.2	18.3
Summit Lake	2/26	--	41.8 <sup>a</sup>	42.3	32.6 <sup>b</sup>
Summit Lake Pillow**	No Report			38.8	--
Timothy Lake	2/26	63	13.3	--	12.8
Valsetz Summit	3/1	17	5.2	0.0	--
Vida	2/27	0	0.0	0.0	0.1
Waldo Lake	2/26	--	32.6 <sup>a</sup>	33.9	23.3 <sup>b</sup>
Weaver Creek	2/27	0	0.0	0.0	0.7
White Branch Slide	2/23	21	6.3	12.0	5.6
Whitewater Bridge	2/27	18	7.6	1.0	3.9



# BASIC DATA SUPPLEMENT 1

MARCH 1, 1976

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. C
ROGUE, UMPQUA WATERSHEDS					
Althouse	2/26	9	2.8	8.1	6.5
Annie Spring	2/28	129	41.4	43.1	36.3
Beaver Dam Creek	2/26	45	15.6	19.5	11.5
Big Red Mountain	2/24	42	12.6	29.6	26.4
Billie Creek Divide	2/23	62	22.4	28.7	17.9
Billie Creek Divide Pillow*	No Report			28.8	--
Caliban	2/26	75	20.0	32.2	29.5
Caliban (Alternate)	2/26	72	19.8	25.2	--
Champion	2/27	83	30.2	30.9	23.2
Cold Springs Camp	2/24	100	33.4	45.0	28.2
Cold Spgs. Camp Pillow**	No Report			--	--
Deadwood Junction	2/26	28	10.8	14.0	8.1
Diamond-Crater Summit	2/25	--	34.4 <sup>a</sup>	35.1	25.8
Diamond Lake	2/25	--	24.9 <sup>a</sup>	24.6	17.2
Fish Lake	2/23	--	15.2 <sup>a</sup>	19.2	11.5
Fourmile Lake	2/23	--	24.1 <sup>a</sup>	24.4	21.3
Grayback Peak	2/26	45	13.3	21.1	22.7
Howard Prairie Reservoir	2/26	27	9.0	13.3	7.8
Hyatt Prairie	2/26	19	7.1	12.0	7.0
King Mountain #1	2/26	14	3.8	14.2	8.1
King Mountain #2	2/26	7	2.4	8.9	5.3
King Mountain #3	2/26	0	0.0	1.2	1.9
King Mountain #4	2/26	0	0.0	0.0	0.0
King Mountain #5	2/26	0	0.0	0.0	0.0
King Mountain #6	2/26	0	0.0	0.0	0.0
Little Red Mountain	2/25	38	10.4	27.4	21.6
Mt. Ashland Switchback	2/26	76	21.3	31.3	28.2
Mule Creek	2/26	7	2.0	10.1	--
North Umpqua	2/25	54	19.5	20.2	11.5
Page Mountain	2/26	0	0.0	4.1	3.6
Park Headquarters	2/27	164	50.9	60.3	48.6
Red Butte #1	2/25	33	12.0	15.0	11.0
Red Butte #2	2/25	17	4.4	11.8	7.2
Red Butte #3	2/26	5	2.5	3.8	5.7
Red Butte #4	2/25	0	0.0	0.0	2.4
Red Butte #5	2/25	0	0.0	0.0	0.5
Red Butte #6	2/25	0	0.0	0.0	0.2
Seven Mile	2/25	102	31.7	31.6	--
Silver Burn	2/27	46	17.2	18.4	10.9
Siskiyou Summit	2/23	11	3.2	13.4	6.3
Ski Bowl Road	2/26	70	18.8	--	24.0
South Fork Canal	2/27	0	0.0	--	2.0
Trap Creek	2/25	42	14.8	18.7	9.2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. C.
KLAMATH WATERSHEDS					
Annie Spring	2/28	129	41.4	43.1	36.3
Billie Creek Divide	2/23	62	22.4	28.7	17.9
Billie Creek Divide Pillow*	No Report			28.8	--
Chemult	2/25	24	5.9	12.1	8.9
Chemult (Alternate)	2/25	30	7.2	14.2	--
Chiloquin (PP&L)	No Report			2.4	1.0
Cold Springs Camp	2/24	100	33.4	45.0	28.2
Cold Spgs. Camp Pillow**	No Report			--	--
Crazyman Flat***	2/23	22	7.3	11.2	8.5
Crowder Flat (Calif.)	2/23	4	1.2	7.0	2.1
Crystal (PP&L)	2/27	17	6.8	16.0	7.2
Diamond-Crater Summit	2/25	--	34.4 <sup>a</sup>	35.1	25.8 <sup>b</sup>
Diamond Lake Junction (97)	2/25	--	3.3 <sup>a</sup>	8.4	5.6 <sup>b</sup>
Dog Hollow***	2/23	2	0.4	3.8	0.5
Finley Corrals***	2/23	57	18.6	16.1	14.2
Fort Klamath (PP&L)	No Report			9.7	2.9
Fourmile Lake	2/23	--	24.1 <sup>a</sup>	24.4	21.3 <sup>b</sup>
Gerber	3/1	13	3.0	4.8	1.9 <sup>b</sup>
Harriman (PP&L)	2/29	13	3.5	11.9	3.3
Howard Prairie	2/26	27	9.0	13.3	7.8 <sup>b</sup>
Hyatt Prairie Reservoir	2/26	19	7.1	12.0	7.0
Kirk (PP&L)	2/28	12	3.2	--	5.2
Park Headquarters	2/27	164	50.9	60.3	48.6
Quartz Mountain	2/26	19	5.7	10.1	5.6
Seven Mile	2/25	102	31.7	31.6	--
State Line (Calif.)***	2/23	30	9.9	13.4	7.5
Strawberry***	2/23	17	5.1	9.6	6.4 <sup>b</sup>
Strawberry	2/29	29	6.4	9.6	6.5
Summer Rim	2/26	43	11.3	15.3	14.5
Summer Rim***	2/23	33	9.9	15.0	13.2
Summer Rim Pillow	2/26	57	14.0	19.4	--
Sycan Flat***	2/23	14	4.2	11.2	6.2
Taylor Butte	2/26	10	3.4	7.0	4.4
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	2/25	16	3.9	15.4	10.9
Bald Mountain (Nev.)	2/23	2	0.5	3.8	3.4
Bear Flat Meadow***	2/23	16	4.8	11.5	9.1
Camas Creek	2/26	27	7.8	13.5	9.2
Cedar Pass (Calif.)	2/24	40	11.6	19.9	13.1
Colvin Creek***	2/23	9	2.6	7.0	4.6
Cox Flatt***	2/23	22	6.6	14.7	6.8
Crowder Flat (Calif.)***	2/23	4	1.2	7.0	2.1
Dismal Swamp (Calif.)***	2/23	58	19.1	19.2	14.1
Finley Corrals***	2/23	57	18.6	16.1	14.2
Hart Mountain***	2/23	2	0.6	4.5	1.5
Little Bally Mtn. (Nev.)***	2/23	10	3.0	5.8	2.3
Mt. Bidwell (Calif.)	No Report			22.6	--
North Star (Calif.)	No Report			18.6	--
Patton Meadows***	2/23	51	16.8	17.3	15.0
Quartz Mountain	2/26	19	5.7	10.1	5.6
Rogger Meadows	2/23	42	13.9	--	--
Sherman Valley***	2/23	34	11.2	14.7	10.5
Silver Creek	2/22	2	1.0	4.9	2.1
State Line (Calif.)***	2/23	30	9.9	13.4	7.5
Strawberry	2/29	29	6.4	9.6	6.5
Strawberry***	2/23	17	5.1	9.6	6.4 <sup>b</sup>
Summer Rim	2/26	43	11.3	15.3	14.5
Summer Rim***	2/23	33	9.9	15.0	13.2
Summer Rim Pillow	2/26	57	14.0	19.4	--
Sycan Flat***	2/23	14	4.2	11.2	6.2

MARCH 1, 1976

MARCH 1, 1976

SNOW		THIS YEAR		PAST REC.		SNOW		THIS YEAR		PAST REC.			
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)		DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
					Last Yr.	Ave. <sup>c</sup>						Last Yr.	Ave. <sup>c</sup>
HARNEY BASIN WATERSHEDS													
Blue Mountain Springs	2/26	54	14.0	16.7	14.1								
Blue Mtn. Springs Pillow*	No Report			13.1	--								
Buck Pasture***	2/23	12	4.0	4.3	2.1								
Buckskin Lake***	2/23	0	0.0	T	0.3								
Call Meadows***	2/24	28	3.4	7.2	4.0								
Delintment Lake	3/1	--	8.1 <sup>a</sup>	8.6	6.6 <sup>b</sup>								
Denio Creek***	2/23	4	1.3	1.3	0.5								
Disaster Peak (Nev.)	2/23	28	8.4	14.1	13.4								
Emigrant Butte	2/27	15	5.0	6.3	3.9 <sup>b</sup>								
Fish Creek	No Report			19.2	21.1 <sup>b</sup>								
Fish Creek***	2/23	75	24.8	21.4	19.1								
Hart Mountain***	2/23	2	0.6	4.5	1.5								
Idlewild Camp Alternate	2/27	10	3.2	5.2	--								
Izee Summit	3/1	36	7.8	10.2	7.0								
Lake Creek R.S.	2/26	--	8.8 <sup>a</sup>	13.0	9.1								
Oregon Canyon***	2/23	14	4.2	4.5	4.8								
Rock Spring	2/24	--	6.3 <sup>a</sup>	8.1	4.9								
Silvies	No Report			11.8	9.9 <sup>b</sup>								
Silvies***	2/23	27	8.9	10.5	7.7								
Snow Mountain	3/3	46	12.2 <sup>a</sup>	13.0	11.9 <sup>b</sup>								
Snow Mountain Pillow**	No Report			12.6	--								
Starr Ridge	3/1	26	6.7	9.2	4.9								
Stinking Water	2/26	12	4.2	7.9	1.9 <sup>b</sup>								
Trout Creek***	2/23	24	7.2	11.5	6.4								
"V" Lake	2/23	23	6.9	13.0	4.9								
LOWER COLUMBIA WATERSHED													
Blazed Alder	No Report			--	--								
Mt. Hood Test Site	3/2	--	63.7	--	52.3								
Mud Ridge	3/1	128	40.8	--	--								
North Fork Reservoir	No Report			--	--								
Still Creek	3/1	82	28.2	22.2	18.3								
T Trace * Manometer reading ** Telemetry reading *** Aerial reading													

(a) Estimated.
(b) 1958-72 adjusted average.
(c) 1958-72, 15 year average.
(d) Corrected to natural flow.
(e) Not scheduled.

[illegible]

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T Trace
* Manometer reading
** Telemetry reading
*** Aerial reading
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(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# BASIC DATA SUPPLEMENT 2

MARCH 1, 1976

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION				Profile (Inches)		Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity	Date of Survey	This Year	Last Year	Average	
OWYHEE, MALHEUR WATERSHEDS								
Bear Creek (Nev.)	7800	72	16.8	3/4	10.8	9.3	11.5	
Big Bend (Nev.)	6700	48	16.7	2/23	15.2	--	15.0	
Blue Mountain Spring	5900	42	16.9	No Report		7.2	10.0	
Mud Flat (Ida.)	5500	48	12.8	No Report		--	12.4	
Rodeo Flat (Nev.)	6800	42	11.0	2/23	4.1	--	9.0	
Taylor Canyon (Nev.)	6200	48	15.1	2/23	8.9	--	12.5	
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS								
Blue Mountain Summit	5100	36	16.8	No Report		11.0	11.0	
Dooley Mountain	5430	36	9.2	2/27	4.7	2.6	4.1	
Emigrant Springs	3925	48	22.3	2/27	19.6	17.4	20.4	
Ladd Summit	3730	48	18.9	2/27	10.3	9.8	11.2	
Moss Springs	5850	36	25.8	2/28	13.9	13.7	15.0	
Tollgate	5070	48	23.6	2/26	16.8	12.4	19.3	
UMATILLA, WALLA WALLA, WILLOW ROCK, LOWER JOHN DAY WATERSHEDS								
Battle Mountain Summit	4340	48	13.8	3/1	13.6	12.6	13.1	
Emigrant Springs	3925	48	22.3	2/27	19.6	17.4	20.4	
Tollgate	5070	48	23.6	2/26	16.8	12.4	19.3	
UPPER JOHN DAY WATERSHEDS								
Battle Mountain Summit	4340	48	13.8	3/1	13.6	12.6	13.1	
Blue Mountain Spring	5900	42	16.9	No Report		7.2	10.0	
Blue Mountain Summit	5100	36	16.8	No Report		11.0	11.0	
Derr	5670	24	9.0	2/25	8.9	7.4	8.3	
Marks Creek	4540	36	14.1	2/27	10.1	9.6	11.8	
Snow Mountain	6300	48	16.7	3/3	13.9	11.6	13.7	
Starr Ridge	5150	36	10.6	3/1	10.6	9.0	9.8	
UPPER DESCHUTES, CROOKED WATERSHEDS								
Derr	5670	24	9.0	2/25	8.9	7.4	8.3	
Marks Creek	4540	36	14.1	2/27	10.1	9.6	11.8	
Snow Mountain	6300	48	16.7	3/3	13.9	11.6	13.7	
KLAMATH WATERSHEDS								
Quartz Mountain	5230	48	15.3	2/26	8.0	7.5	8.6	
LAKE COUNTY, GOOSE LAKE WATERSHEDS								
Camas Creek	5720	42	14.5	2/26	10.4	11.4	12.5	
Quartz Mountain	5230	48	15.3	2/26	8.0	7.5	8.6	
HARNEY BASIN WATERSHEDS								
Blue Mountain Spring	5900	42	16.9	No Report		7.2	10.0	
Silvies	6900	48	16.4	No Report		13.7	13.4	
Snow Mountain	6300	48	16.7	3/3	13.9	11.6	13.7	
Starr Ridge	5150	36	10.6	3/1	10.6	9.0	9.8	
Willow-Bald	5000	24	6.6	2/26	5.2	4.6	5.3	
(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.								

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

MARCH 1, 1976

MARCH 1, 1976

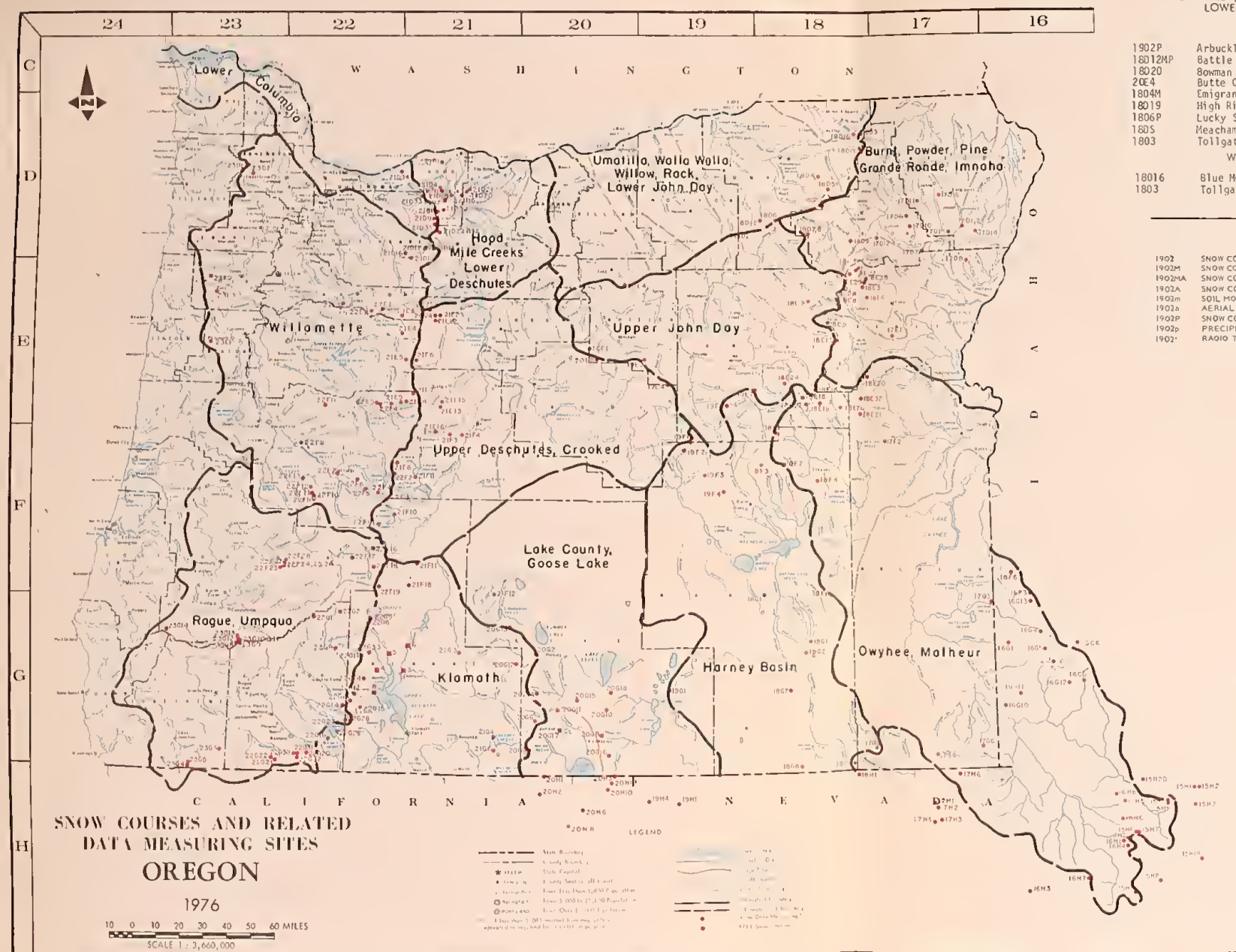
### PRECIPITATION (Inches)

[illegible]







[illegible]

21E22	Bald Peter	29	105	9E	5400
21F8	Caldwell Ranch	30	215	8E	4400
22F3	Cascade Summit	7	235	6E	4880
21F11	Chemult	21	275	8E	4760
21E6	Hogg Pass	24	135	7E	4755
21F4	Hungry Flat	29	185	11E	4400
21F6*	Irish-Taylor	25	205	6E	5500
21E25a	Lionshead	1	105	8E	5400
21F10	New Crescent Lake	11	245	6E	4800
21E16	New Outchman Flat #2	21	185	9E	6400
21E23	Racing Creek	15	105	9E	4800
22F14*	Summit Lake	33	245	5E	5600
21F3	Tangent	28	185	10E	5400
21E15	Three Creeks Butte	27	165	9E	5200
21E13*	Three Creeks Meadows	34	165	9E	5650
22F2	Waldo Lake	15	105	6E	5600
21E24a	Whitewater Meadow	17	215	9E	4160
Crooked River					
19E3MP	Derr	14	135	23E	5670
20E1MP	Marks Creek	25	125	19E	4540
20E2	Ochocho Meadows	21	135	20E	5200
19F1*	Snow Mountain	1	195	26E	6220
19E4	Tamarack	8	155	25E	4800
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS <sup>(1)</sup>					
Hood River					
2106P	Brooks Meadows	2	25	10E	4300
21025	Cooper Spur	6	25	10E	3490
2101	Greenpoint Reservoir	27	20	9E	3200
21020	Knebal Springs	31	15	11E	3850
210B*	Phlox Point	7	35	9E	5400
2104	Red Hill	20	15	9E	4400
2109	Still Creek	25	35	8E	3670
21028	Switchback	28	15	9E	3255
2107P	Tilly Jane	15	25	9E	6000
21021	Ulrich Ranch Junction	28	15	11E	3350
21030	Umbrella Falls	3	35	9E	5400
Mile Creeks - Mosier Creek					
2106P	Brooks Meadows	2	25	10E	4300
21020	Knebal Springs	31	15	11E	3850
21021	Ulrich Ranch Junction	28	15	11E	3350
Lower Deschutes River					
21012	Clear Lake	29	45	9E	3500
21022	Clear Lake Experimental	29	45	9E	3500
21E6	Hogg Pass	24	135	7E	4755
LOWER COLUMBIA WATERSHEDS <sup>(1)</sup>					
Bull Run River					
21033*	Blazed Alder	5	25	8E	3650
Sandy River					
21035	Mud Ridge	1	45	8E	3800
21034	North Fork Reservoir	24	10	6E	3120
210B*	Phlox Point	7	35	9E	5400
2109	Still Creek	25	35	8E	3670
WILLAMETTE WATERSHEDS <sup>(1)</sup>					
Clackamas River					
21013	Clackamas Lake	35	55	8E	3400
21012	Clear Lake	29	45	9E	3500
21016	Lake Harriet	4	65	7E	2045
2104P*	Peavine Ridge	14 & 15	65	7E	3500
210B*	Phlox Point	7	35	9E	5400
2109	Still Creek	25	35	8E	3670
21017	Timothy Lake	26	55	8E	3295
Sentient River					
22E1	Detroit (City)	1	105	5E	1610
22E2	Detroit Dam	7	105	5E	1580

22F13	Laying Creek R.S.	31	215	1E	1200
22F12	Lund Park	22	225	1E	1740
22F11	Weaver Creek	35	225	1E	2440
Mary's River					
23E1	Mary's Peak	21	125	7W	3620
Lucklomute River					
23E2	Laurel Mountain	6	85	7W	3000
23E3	Valsetz Summit	3	95	7W	2600
Tuolotin River					
23O2*	Seine Creek	34	1W	5W	2000
23O1*	Saddle Mountain	25	1W	6W	3250
ROGUE, UMPQUA WATERSHEDS 191					
Rogue River					
23G1P	Altthouse	17	415	7W	4530
22G6	Annie Spring	19	315	6E	6010
22G28	Beaver Dam Creek	1	385	4E	5100
22G21P	Big Red Mountain	31	405	1W	6250
22G13P	Billie Creek Divide	30	365	5E	5300
22G30	Calliban	16	405	1E	6500
22G27	Deadwood Junction	8	205	4E	4600
22F19	Diamond-Grater Summit	3	295	6E	5800
22G14P	Fish Lake	3	375	4E	4665
22G12	Fountain Lake	9	365	5E	6000
23G3	Grayback Peak	9	105	5W	6000
22G26	Howard Prairie	32	385	4L	4500
22G16	Hyatt Prairie Reservoir	15	335	3E	4900
22G22	Little Red Mountain	25	405	2W	6500
22G31	Ht. Ashland Switchback	15	405	1E	6400
23G14	Mule Creek	8	325	9W	3600
22G5	Page Mountain	5	415	7W	4045
22G25	Park Headquarters	0	315	6E	6050
22G11	Seven Lakes No. 2	26	335	5E	6200
22G2	Silver Burn	30	305	4L	3720
22G20	Siskiyou Summit	17	405	2E	4630
22G32	Ski Bowl Road	22	405	1E	6000
22G9	South Fork Canal	12	335	3L	3500
22G1	Whaleback	4	315	2E	5025
Umpqua River					
22F9	Champion	12	235	1E	4500
22F18P	Diamond Lake	29	275	6L	5315
23G0	King Mountain No. 1	5	335	4W	4500
23G9	King Mountain No. 2	4	335	4W	4000
23G10	King Mountain No. 3	33	325	4W	3648
23G11	King Mountain No. 4	33	325	4W	3919
23G12	King Mountain No. 5	29 A	325	4W	2380
23G13	King Mountain No. 6	20	325	4W	1020
22F23	North Umpqua	19	265	6E	4215
22F23	Red Butte No. 1	36	275	2W	4560
22F24	Red Butte No. 2	30	275	1W	4000
22F25	Red Butte No. 3	30	275	1W	3500
22F26	Red Butte No. 4	30	275	1W	3000
22F27	Red Butte No. 5	20	275	1W	2500
22F28	Red Butte No. 6	17	275	1W	2000
22F17	Trap Creek	1	275	4E	3800
22G1	Whaleback	4	315	2E	5025
KLAMATH WATERSHEDS 191					
Klamath River					
22G6	Annie Spring	19	315	6E	6010
22G13P	Billie Creek Divide	30	365	5E	5300
21F11	Chemult	21	275	8E	4760
22G24*	Cold Springs Camp	12	355	5E	6100
20G12a	Crazymen Flat	9	345	15E	6100
20H2a	Crowder Flat (Cal)	30	47W	11E	5200
22F19	Diamond-Grater Summit	3	295	6E	5800
21F18	Diamond Lake Jct. (97)	1	295	7E	4600

# Map and Index to ORE

LAKE COUNTY, GOOSE LAKE WATERSHED 1121				
Goose Lake				
20G15a	Bear Flat Meadow	27	365	19E 5900
20G8MP	Camas Creek	5	395	21E 5720
20G11A	Cox Flat	16	375	18E 5750
20I12a	Crowder Flat (Cal)	30	47N	11E 5200
20H13a	Oismal Swamp (Cal)	31	48N	16E 7200
20G17a	Pattson Meadow	28	385	18E 6000
20G6MP	Quartz Mountain	2	385	16E 5320
20H14a	State Line (Cal)	21	48N	11E 5750
20G9AP	Strawberry	4	405	16E 5760
20G16a	Willow Creek	13	405	21E 6020
Abert Lake				
20G15a	Bear Flat Meadow	27	365	19E 5900
20G11ap	Colvin Creek	12	365	21E 6000
20G11A	Cox Flat	16	375	18E 5750
20G14a	Flinley Corralis	11	365	16E 6000
20G6MP	Quartz Mountain	2	385	16E 5320
20G10a	Sherman Valley	15	375	21E 6600
Summer Lake				
20G2AP	Summer Rim	23	335	16E 7100
Silver Lake				
21F2P	Silver Creek	25 & 26	295	13E 4900
20G13a	Sycan flat	25	315	14E 5500
Walker Lake				
20G8MP	Camas Creek	5	395	21E 5720
20H13a	Oismal Swamp (Cal)	31	48N	16E 7200
19G14a	Hart Mountain	1	365	25E 6350
20G10a	Sherman Valley	15	375	21E 6600
20G16a	Willow Creek	13	405	21E 6020
Guano Lake				
19H1	Bald Mountain (Nov)	17	45N	21E 6720
19G1a	Hart Mountain	1	365	25E 6350
19H4a	Little Baldy Mt. (Nov)	8	45N	19E 6600
HARNEY BASIN WATERSHED 1122				
Silvies River - Silver Creek				
10F7a	Gall Meadows	29	205	33E 5340
19F2	Ocellantout Lake	28	195	26E 5600
19F3	Emigrant Butte	14	215	27E 5000
10F3P	Idylwild Camp	27	205	31E 5200
19F9P	Iznu Summit	28	165	29E 5293
19F1	Rock Spring	23	185	32E 5100
19F11a	Snow Mountain	1	195	26E 6220
19E7H	Starr Ridge	20	155	31E 5159
10F4P	Stinking Water	34	215	34E 4800
Donner Und Blitzen River				
10F6a	Buck Pasture	28	295	35E 5300
10G2PA	Fish Creek	4	335	33E 7900
19G1a	Hart Mountain	1	365	25E 6350
10G1PA	Silvies	35	325	33E 6900
10G7a	"W" Lake	31	35	32E 6600
Trout and Whitehorse Creeks				
10G6a	Denio Creek	14	415	34E 6000
18H1	Disaster Peak (Nov)	0	47N	34E 6500
17G5a	Oregon Canyon	8	405	40E 6950
10G5a	Trout Creek	10	415	38E 7800
Horney Lake				
10G8a	Buckskin Lake	25	295	30E 5200

## Map and Index to OREGON SNOW COURSES





# The Following Organizations Cooperate in the Oregon Snow Survey Work

## STATE

- Idaha Cooperative Snow Surveys
- Nevada Caoperative Snow Surveys
- Oregon State University
- Oregan Department Of Water Resources
- Soil and Water Canservation Districts of Oregan

## COUNTY

- Dauglas County Water Resources Survey

## FEDERAL

- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Revlamation
  - Fish and Wildlife Service
  - Geological Survey
- Department of National Defense
  - Corps of Army Engineers

## PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

## MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

## IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fark Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoca Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale - Oregon Irrigation District
- Warmsprings Irrigation District

## PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

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